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PATENT  
Attorney Docket No.: 014210-000730US

Assistant Commissioner for Patents  
Washington, D.C. 20231

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On April 19, 2001  
TOWNSEND and TOWNSEND and CREW LTD  
By: Amelia S. Part

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

ADELMAN *et al.*

Application No.: 09/254,590

Filed: March 10, 1999

For: SMALL AND INTERMEDIATE  
CONDUCTANCE, CALCIUM-  
ACTIVATED POTASSIUM  
CHANNELS AND USES THEREOF

Examiner: Pak, Michael D.

Art Unit: 1646

PRELIMINARY AMENDMENT AND  
RESPONSE TO RESTRICTION  
REQUIREMENT

11/8  
2/8/01  
4/27/01

Art Unit 1646  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Applicants provide the following response to the Restriction Requirement dated March 19, 2001. Please amend the claims as follows.

IN THE CLAIMS:

- ✓ Please cancel claims 1-55 without prejudice to subsequent revival.  
Please add new claims 56-99 as follows.

56. An isolated nucleic acid encoding a monomer of a calcium-activated potassium channel, said monomer

- i. having a calculated molecular weight of between 40 and 80 kDa;  
ii. having a unit conductance of between 2 and 60 pS when the monomer is in

B<sup>1</sup>